Report No.: Test Time: 2023-03-29 10:26

Luminaire Property

Luminaire Manufacturer:
Luminaire Category: SPOTLIGHT
Lamp Catalog: LED
Number of Lamps: 1
Current: 0.000 A
Power Factor: 1.000

Luminaire Description: EMD2W-2H
Lamp Description: 5050
Voltage: 0.0 V
Power: 0.00 W

Photometric Results

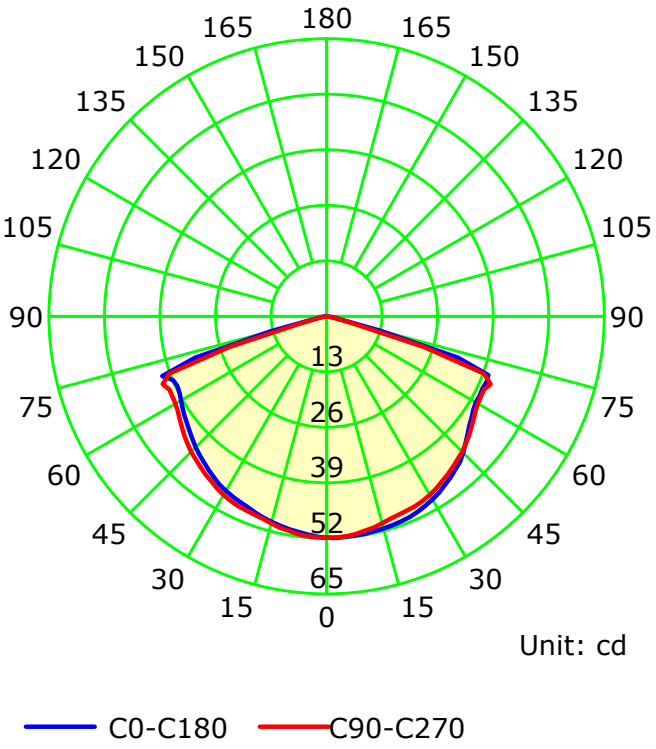
CIE Class: Direct
Measurement Flux: 202.8 lm
Downward Ratio: 100%
Horizontal Diffuse Angle(50%): H146.7
Vertical Diffuse Angle(50%): V144.3
Luminaire Efficacy Rating (LER): 202.88
Max. Intensity: 52.31 cd
S/MH(C0/C180): 1.40

Total Rated Lamp Lumens: 202.8 lm
Efficiency: 100%
Upward Ratio: 0%

Central Intensity: 52.15 cd
Pos of Max. Intensity: H50 V2.5
S/MH(C90/C270): 1.40

Picture Of Luminaire

Luminous Intensity Distribution Curve

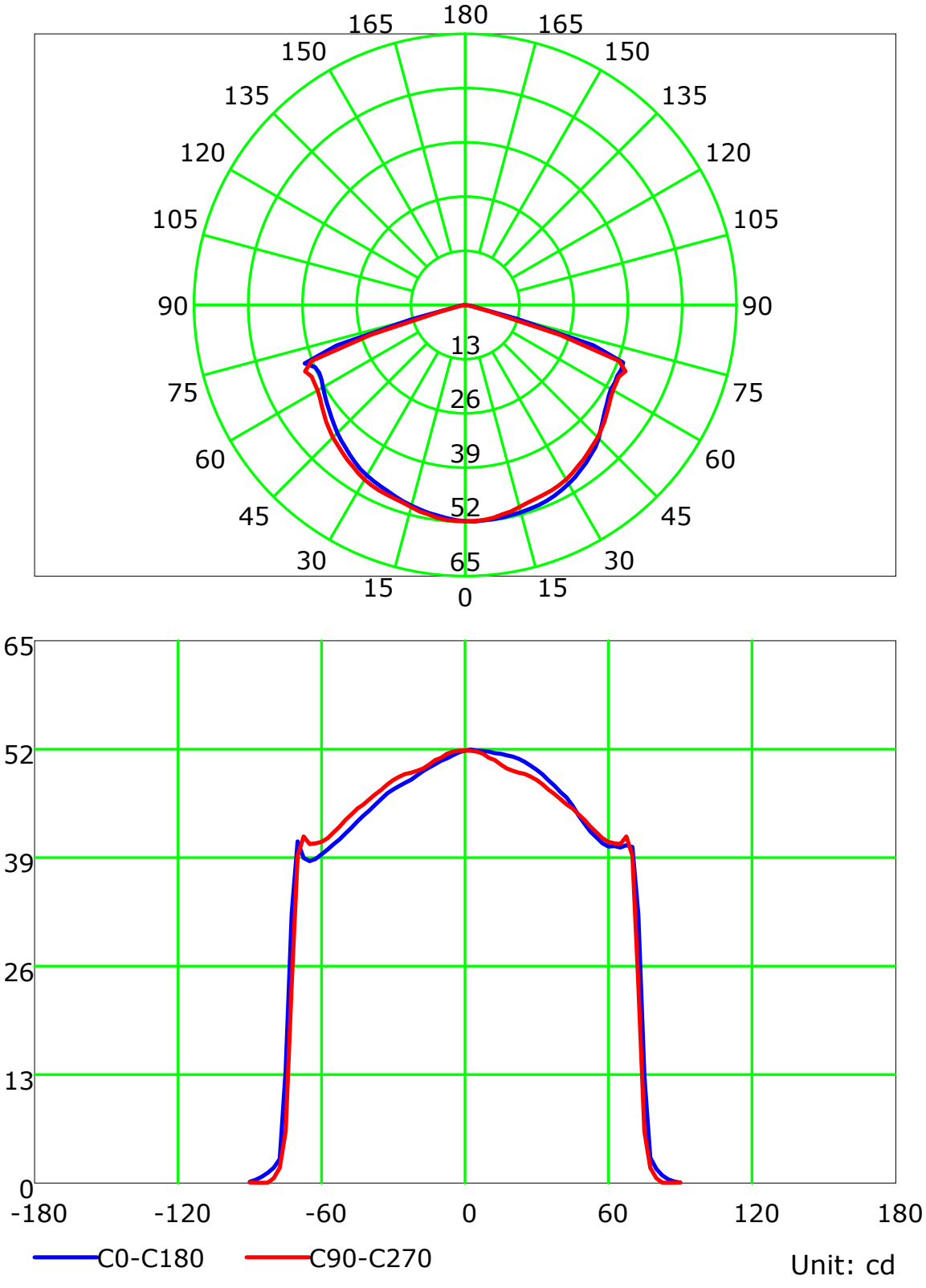


Unit: cd

C Plane (°):0.0-180.0: 5.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:2.5
Test Device: GPM-1600L
Distance: 4.839 m
Humidity:
Inspector:

Luminous Intensity Distribution Curve



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Test Lab:
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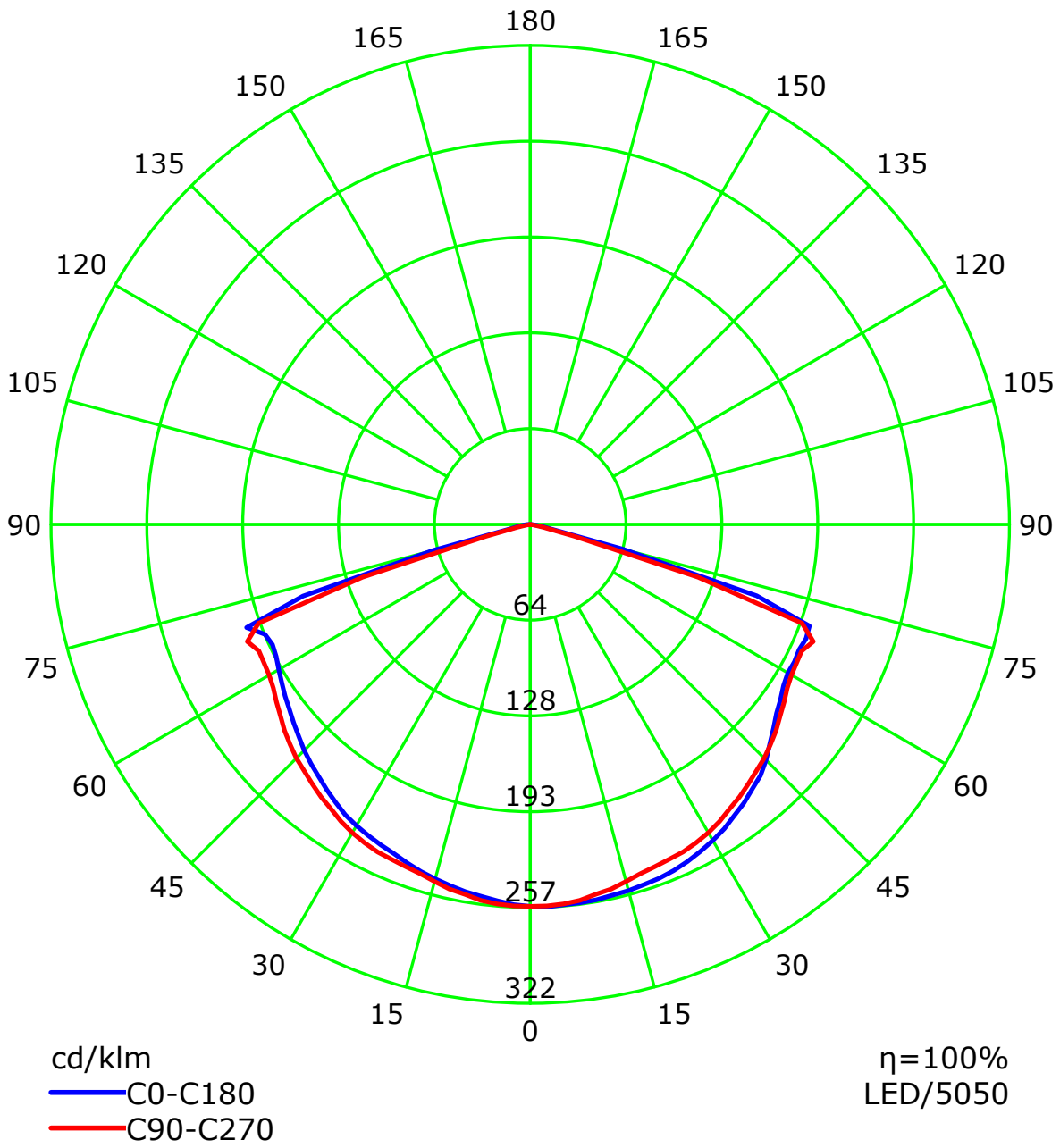
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:2.5
Test Device: GPM-1600L
Distance: 4.839 m
Humidity:
Inspector:

Luminous Intensity Distribution Curve(cd/klm)



C Plane (°):0.0-180.0: 5.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

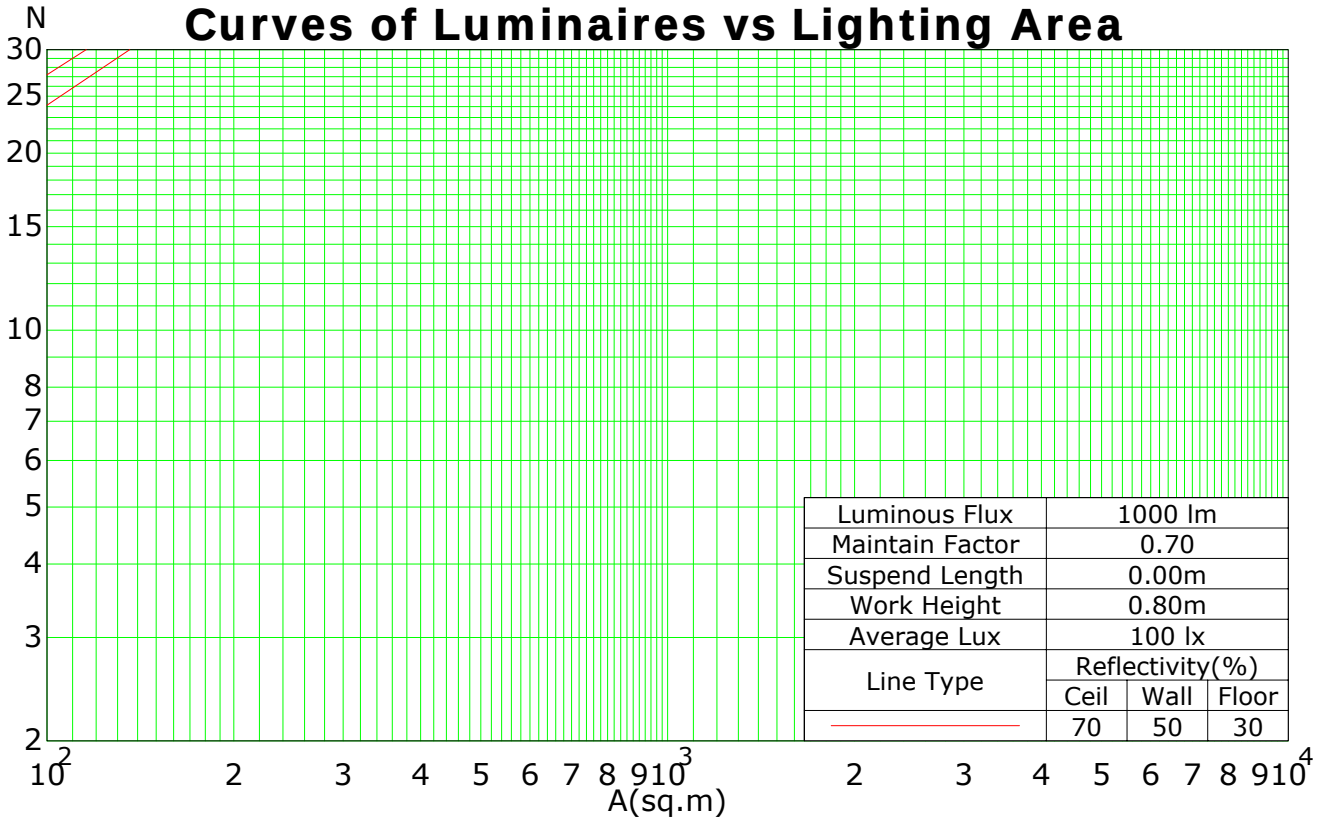
Gamma Plane (°):0.0-90.0:2.5
Test Device: GPM-1600L
Distance: 4.839 m
Humidity:
Inspector:

Coefficients Of Utilization - Zonal Cavity Method

RC	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.3	0.3	0.3	0.1	0.1	0.1	0
RW	0.7	0.5	0.3	0.1	0.7	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0
RCR	RF = 0.2																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	98	94	105	101	97	93	96	93	90	93	90	87	89	87	85	82
2	97	88	81	74	94	86	79	73	82	77	72	79	74	70	76	72	68	66
3	87	76	67	60	85	74	66	59	71	64	58	68	62	57	66	61	56	54
4	79	66	57	49	77	65	56	49	62	54	48	60	53	48	58	52	47	45
5	72	58	49	41	70	57	48	41	55	47	41	53	46	40	51	45	40	37
6	66	52	42	35	64	51	42	35	49	41	35	47	40	35	46	39	34	32
7	61	47	37	31	59	46	37	31	44	36	30	43	36	30	41	35	30	28
8	57	42	33	27	55	42	33	27	40	32	27	39	32	27	38	31	26	24
9	53	39	30	24	51	38	30	24	37	29	24	36	29	24	35	28	24	22
10	49	36	27	22	48	35	27	22	34	27	21	33	26	21	32	26	21	19

Spacing Criteria (0-180): 1.40
Spacing Criteria (90-270): 1.40
Spacing Criteria (Diagonal): 1.59

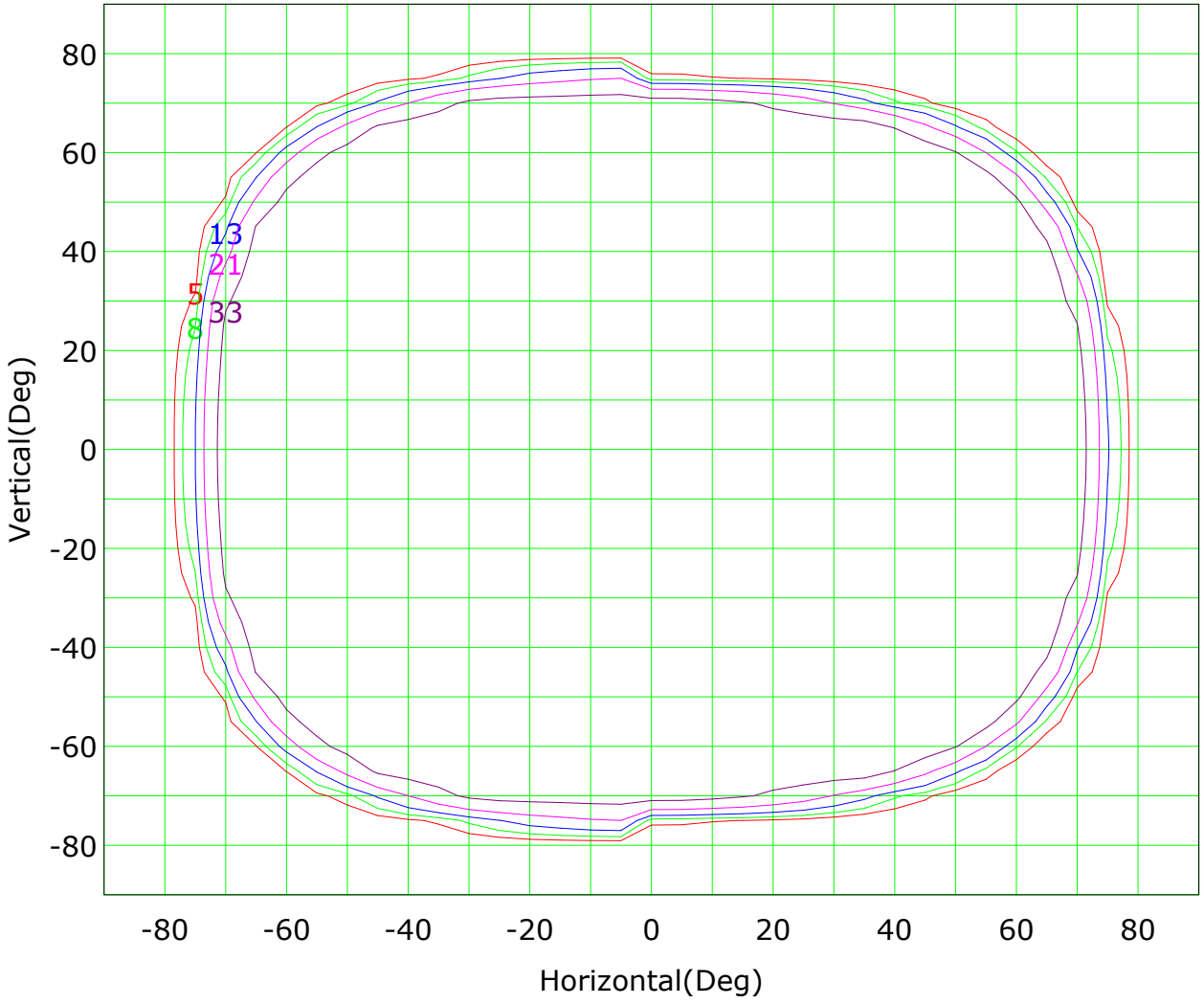
Curves of Luminaires vs Lighting Area



C Plane (°):0.0-180.0: 5.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:2.5
Test Device: GPM-1600L
Distance: 4.839 m
Humidity:
Inspector:

Isocandela (rectangle)



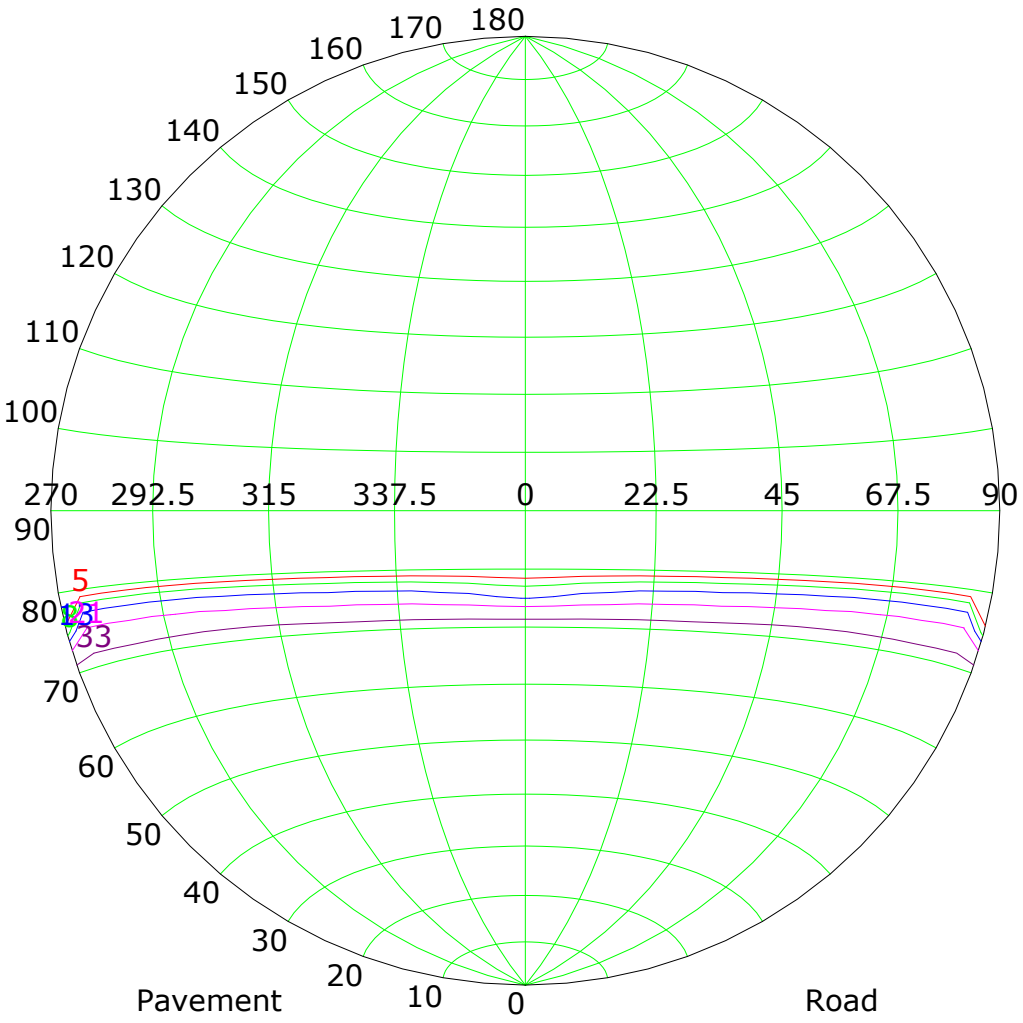
Imax (100%): 52 cd

(10%):	5 cd	(16%):	8 cd
(25%):	13 cd	(40%):	21 cd
(63%):	33 cd	(100%):	52 cd

C Plane (°):0.0-180.0: 5.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:2.5
Test Device: GPM-1600L
Distance: 4.839 m
Humidity:
Inspector:

Isocandela (sphere)



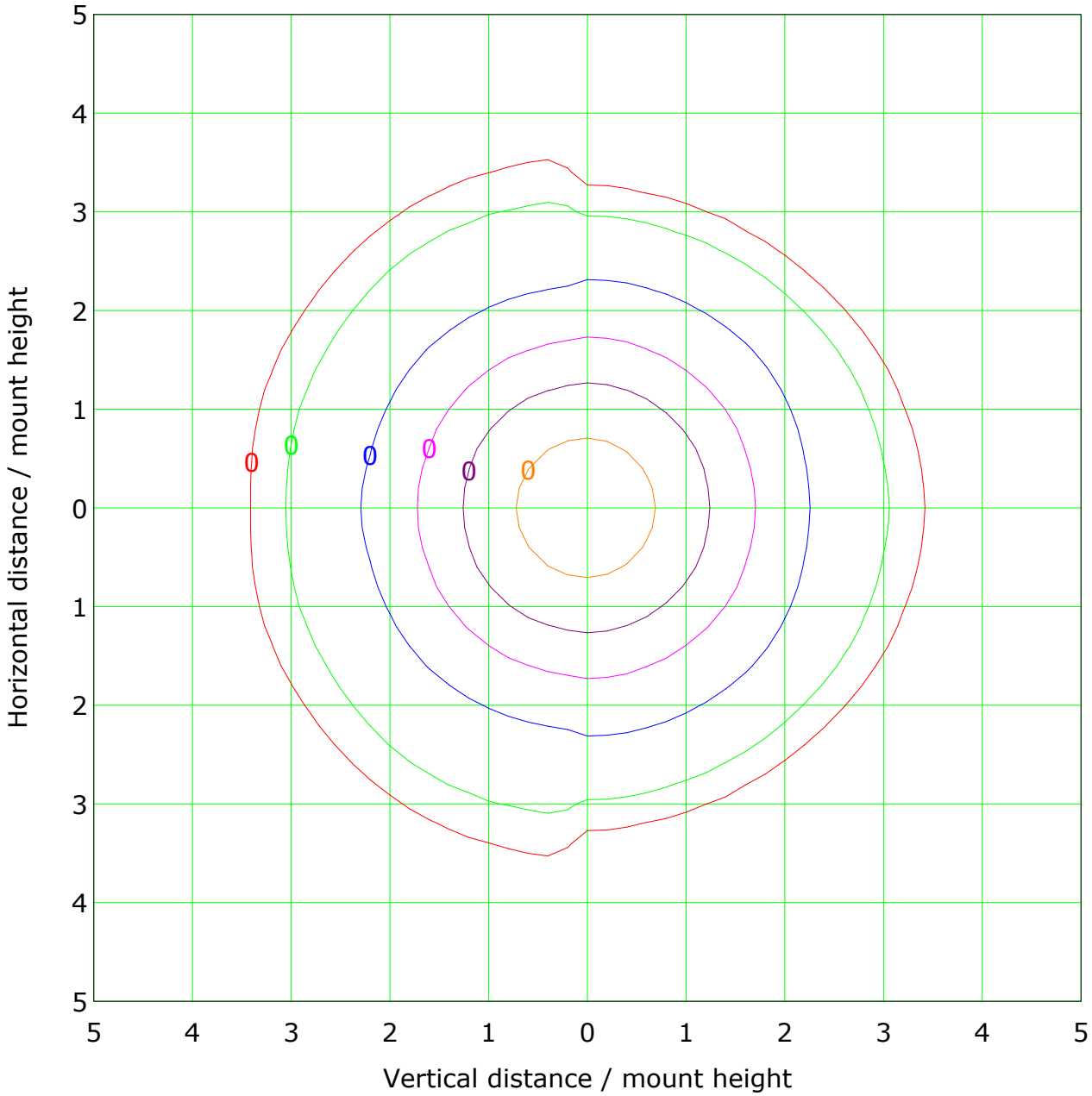
Imax (100%): 52 cd

(10%):	5 cd	(16%):	8 cd
(25%):	13 cd	(40%):	21 cd
(63%):	33 cd	(100%):	52 cd

C Plane (°):0.0-180.0: 5.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:2.5
Test Device: GPM-1600L
Distance: 4.839 m
Humidity:
Inspector:

IsoLux Plot



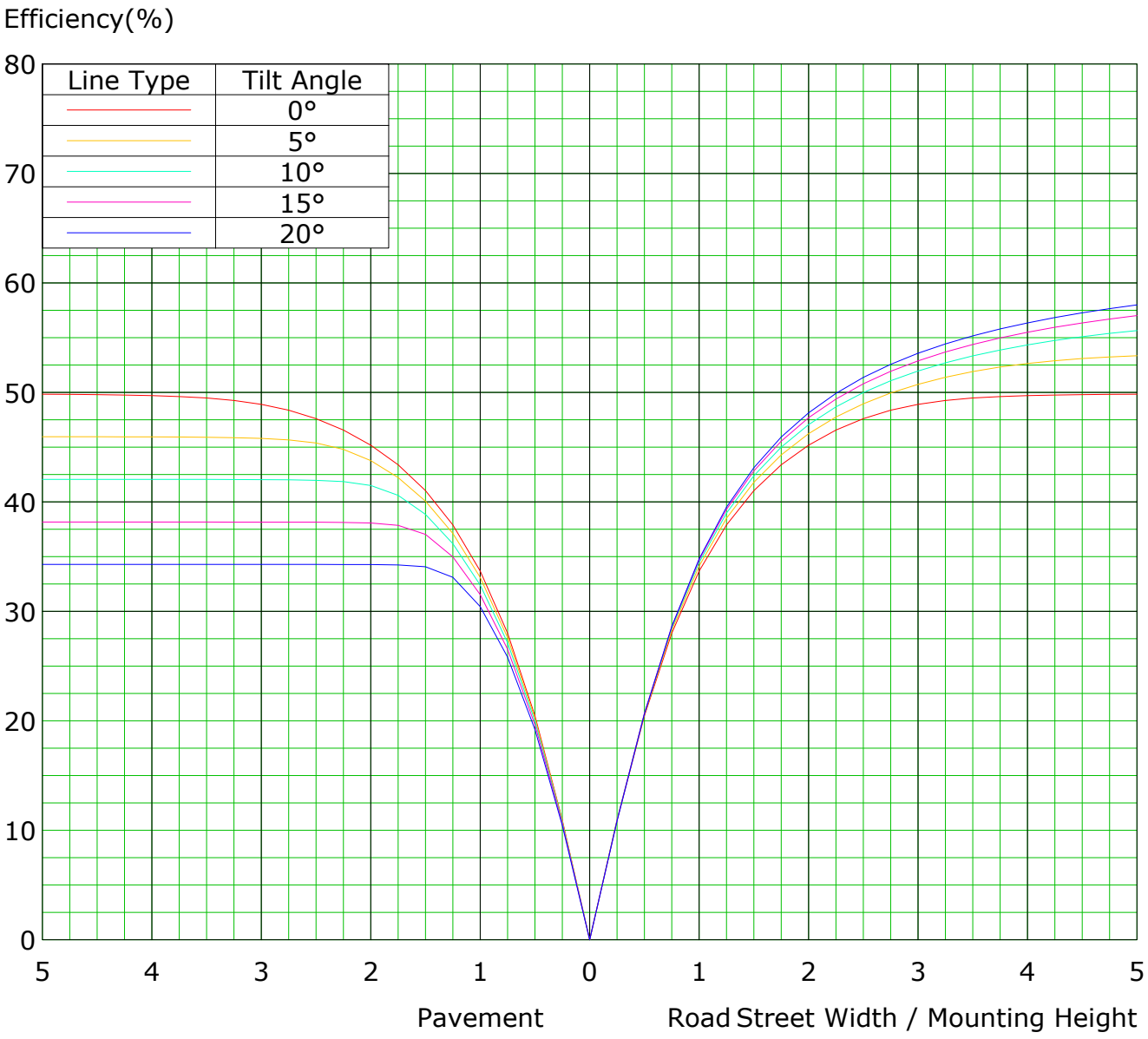
Mounting Height: 10.0m Max Lux(100%): 0.5 lx

(1%): 0.0 lx	(2%): 0.0 lx
(5%): 0.0 lx	(10%): 0.1 lx
(20%): 0.1 lx	(50%): 0.3 lx
(100%): 0.5 lx	

C Plane (°):0.0-180.0: 5.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:2.5
Test Device: GPM-1600L
Distance: 4.839 m
Humidity:
Inspector:

Roadway CU Curve

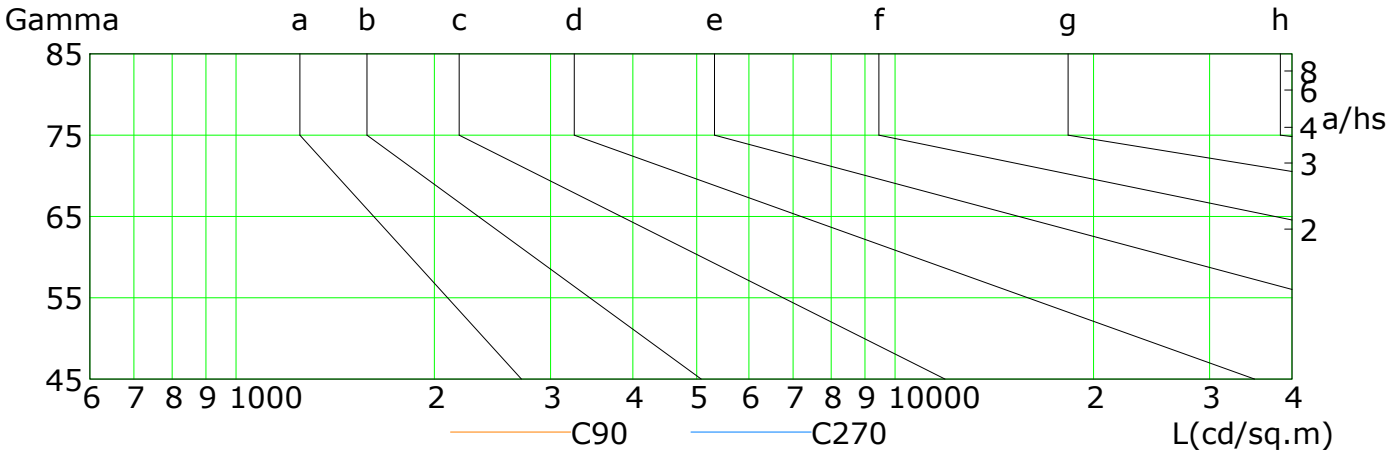


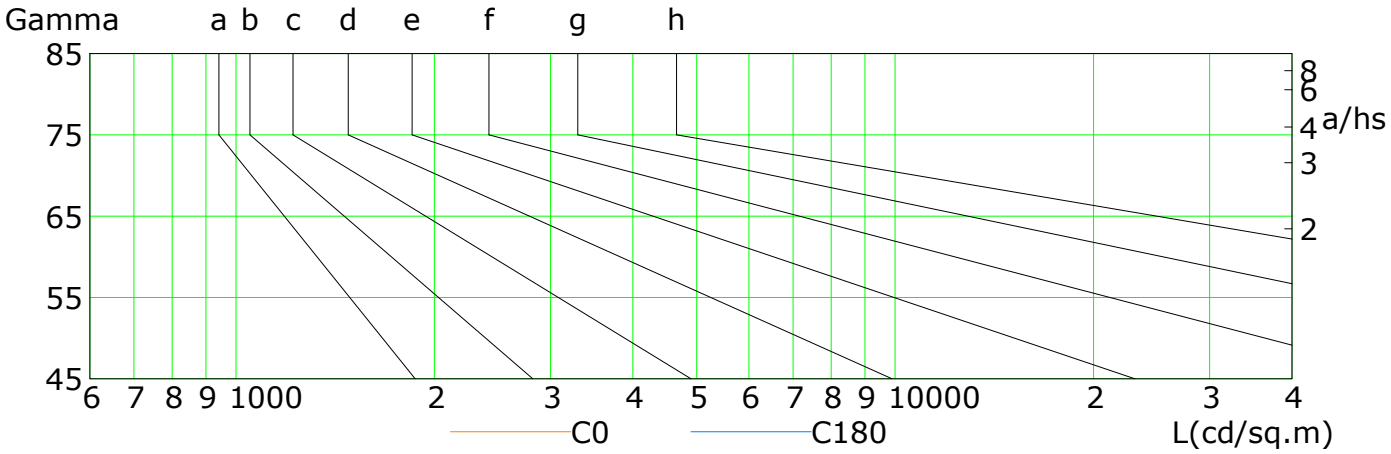
C Plane (°):0.0-180.0: 5.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:2.5
Test Device: GPM-1600L
Distance: 4.839 m
Humidity:
Inspector:

Lum Limit Curve

Dazzle	Quality	Illuminance (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h



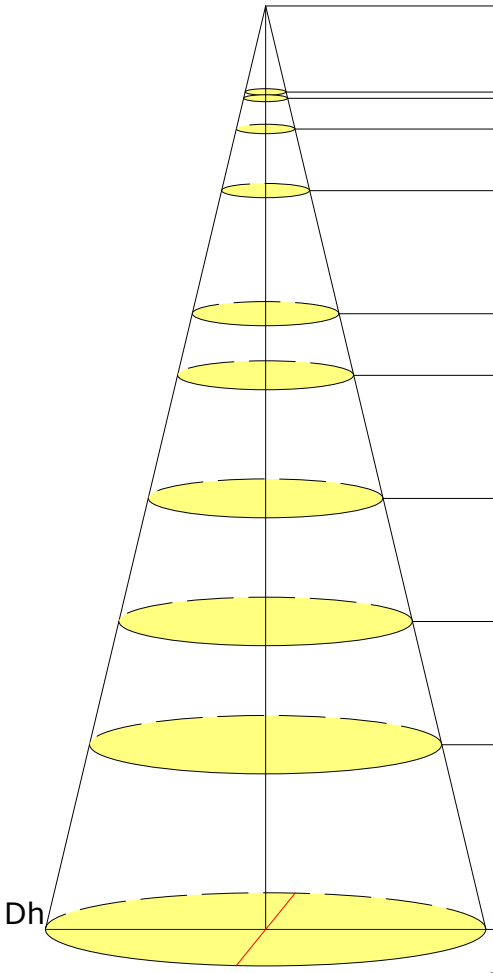


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	46	43	42	41	40	41	13	2	0
C90	45	44	42	41	41	39	6	1	0
C180	44	42	41	40	39	41	14	2	1
C270	45	44	42	41	41	39	6	1	0

C Plane (°):0.0-180.0: 5.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:2.5
Test Device: GPM-1600L
Distance: 4.839 m
Humidity:
Inspector:

Illuminance at a Distance



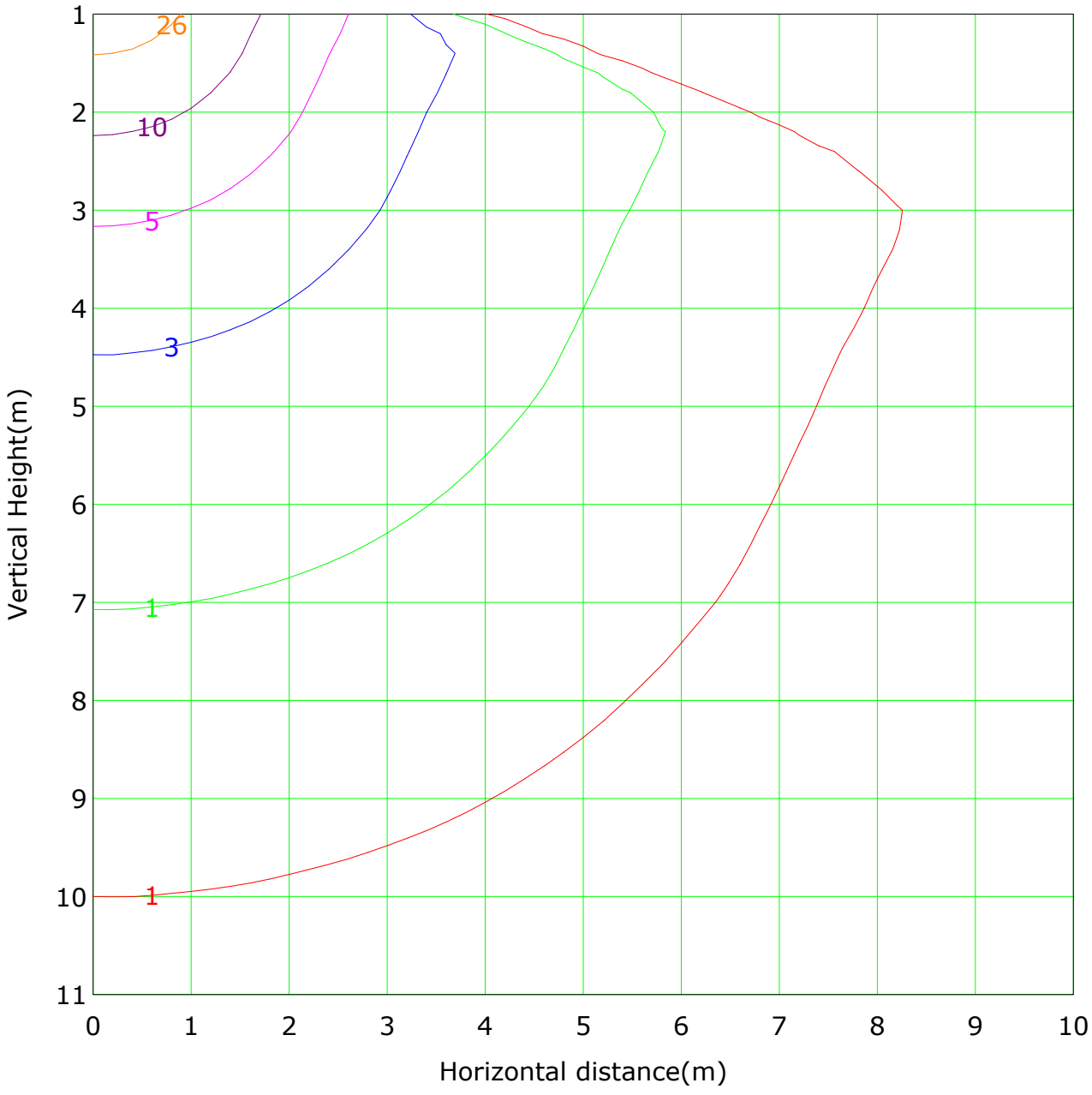
Dist(m)	Enadir(lx)	Dh/Dv_B(m)	S_B(sq.m)	Eav_B(lx)
3.8	6.65	18.70/17.41	270.3	0.70
3.8	5.75	20.09/18.65	310.3	0.61
4.0	3.26	26.71/24.87	551.6	0.34
6.0	1.45	40.06/37.30	1241.2	0.15
10.0	0.52	66.77/62.17	3447.7	0.06
12.0	0.36	80.13/74.60	4964.6	0.04
16.0	0.20	106.84/99.47	8826.0	0.02
20.0	0.13	133.55/124.34	13790.7	0.01
24.0	0.09	160.26/149.20	19858.5	0.01
30.0	0.06	200.32/186.50	31029.0	0.01

Beam Angle(B): H146.7 V144.3 Field Angle(F): H153.9 V151.2

C Plane (°):0.0-180.0: 5.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:2.5
Test Device: GPM-1600L
Distance: 4.839 m
Humidity:
Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 52.1 lx

(1%): 0.5 lx
(2%): 1.0 lx
(5%): 2.6 lx
(10%): 5.2 lx
(20%): 10.4 lx
(50%): 26.1 lx
(100%): 52.1 lx

C Plane (°):0.0-180.0: 5.0
Gamma Plane (°):0.0-90.0:2.5
Test Lab:
Test Device: GPM-1600L
Test Type: TYPE C
Distance: 4.839 m
Temperature:
Humidity:
Operator:
Inspector:

Area Flux Table

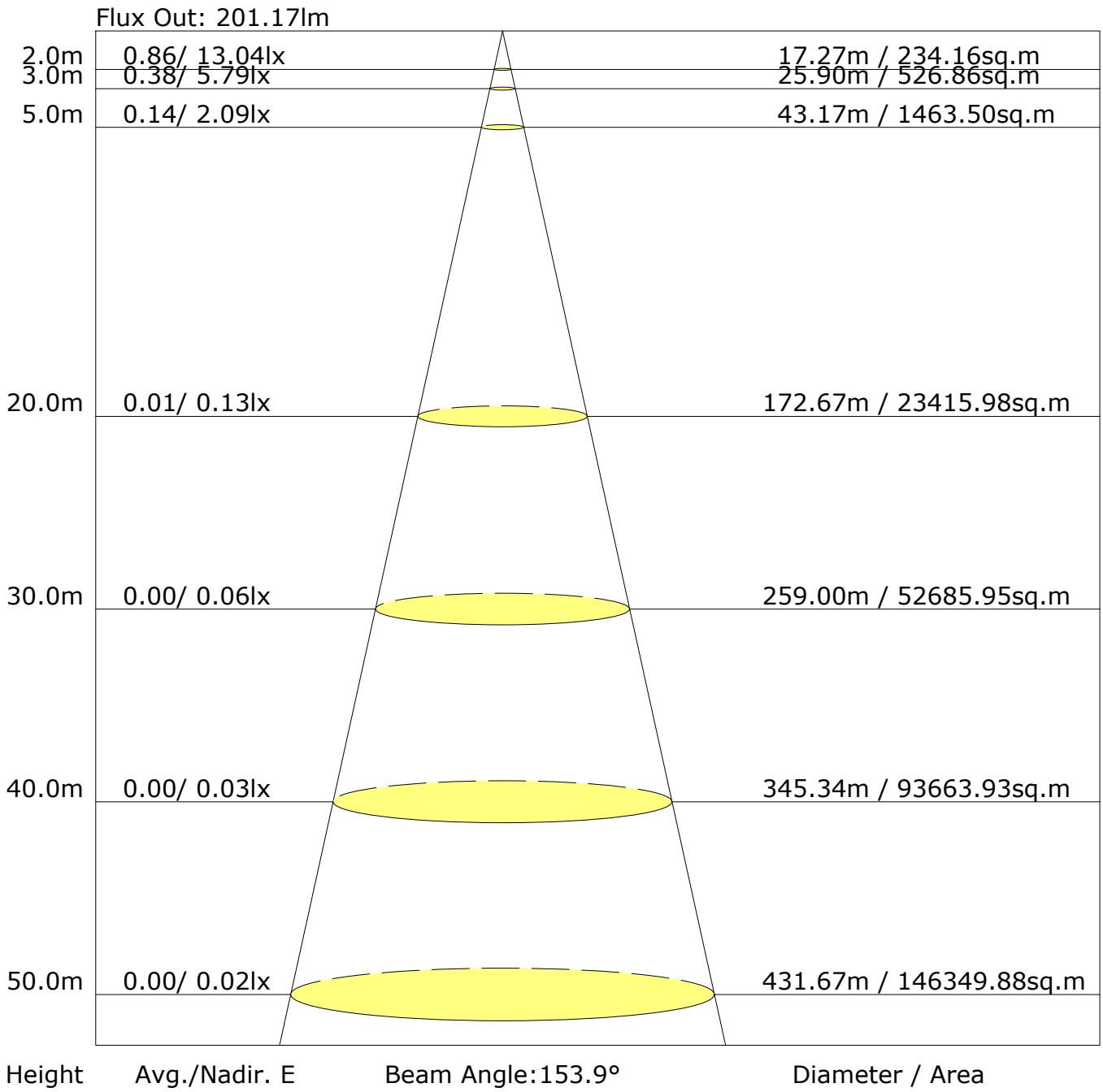
Unit: lm

Vertical plane \ Horizontal plane	-90/-80	-80/-70	-70/-60	-60/-50	-50/-40	-40/-30	-30/-20	-20/-10	-10/0	0/10	10/20	20/30	30/40	40/50	50/60	60/70	70/80	80/90	Flux(T)	Flux(E)
-90/-80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
-80/-70	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.4	0.6	0.6	0.4	0.2	0.1	0.0	0.0	0.0	0.0	3.0	2.7
-70/-60	0.0	0.0	0.0	0.2	0.5	0.9	1.1	1.2	1.2	1.2	1.2	1.1	1.0	0.7	0.3	0.0	0.0	0.0	10.4	10.3
-60/-50	0.0	0.0	0.1	0.6	0.9	1.0	1.1	1.2	1.3	1.3	1.2	1.1	1.0	0.9	0.6	0.2	0.0	0.0	12.6	12.6
-50/-40	0.0	0.0	0.4	0.7	0.9	1.0	1.2	1.3	1.4	1.4	1.3	1.2	1.1	0.9	0.7	0.4	0.0	0.0	13.8	13.8
-40/-30	0.0	0.1	0.5	0.7	0.9	1.1	1.2	1.4	1.4	1.4	1.4	1.3	1.1	0.9	0.7	0.5	0.1	0.0	14.7	14.6
-30/-20	0.0	0.1	0.5	0.7	0.9	1.1	1.3	1.4	1.5	1.5	1.5	1.3	1.2	0.9	0.7	0.5	0.1	0.0	15.3	15.2
-20/-10	0.0	0.1	0.5	0.7	0.9	1.1	1.3	1.4	1.5	1.5	1.5	1.4	1.2	1.0	0.7	0.5	0.1	0.0	15.6	15.6
-10/0	0.0	0.2	0.5	0.7	0.9	1.2	1.3	1.5	1.6	1.6	1.5	1.4	1.2	1.0	0.7	0.5	0.2	0.0	15.9	15.9
0/10	0.0	0.2	0.5	0.7	0.9	1.2	1.3	1.5	1.6	1.6	1.5	1.4	1.2	1.0	0.7	0.5	0.2	0.0	15.9	15.9
10/20	0.0	0.1	0.5	0.7	0.9	1.1	1.3	1.4	1.5	1.5	1.5	1.4	1.2	1.0	0.7	0.5	0.1	0.0	15.6	15.6
20/30	0.0	0.1	0.5	0.7	0.9	1.1	1.3	1.4	1.5	1.5	1.5	1.3	1.2	0.9	0.7	0.5	0.1	0.0	15.3	15.2
30/40	0.0	0.1	0.5	0.7	0.9	1.1	1.2	1.4	1.4	1.4	1.4	1.3	1.1	0.9	0.7	0.5	0.1	0.0	14.7	14.6
40/50	0.0	0.0	0.4	0.7	0.9	1.0	1.2	1.3	1.4	1.4	1.3	1.2	1.1	0.9	0.7	0.4	0.0	0.0	13.8	13.8
50/60	0.0	0.0	0.1	0.6	0.9	1.0	1.1	1.2	1.3	1.3	1.2	1.1	1.0	0.9	0.6	0.2	0.0	0.0	12.6	12.6
60/70	0.0	0.0	0.0	0.2	0.5	0.9	1.1	1.2	1.2	1.2	1.2	1.1	1.0	0.7	0.3	0.0	0.0	0.0	10.4	10.3
70/80	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.4	0.6	0.6	0.4	0.2	0.1	0.0	0.0	0.0	0.0	3.0	2.7
80/90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
Flux(T)	0.0	1.0	5.0	8.6	12.0	15.0	17.5	19.4	20.5	20.9	20.2	18.5	15.9	12.7	9.0	5.3	1.1	0.0	203	
Flux(E)	0.0	0.9	4.9	8.5	11.9	14.9	17.5	19.4	20.4	20.8	20.1	18.4	15.8	12.6	8.9	5.2	0.9	0.0		201

C Plane (°):0.0-180.0: 5.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:2.5
Test Device: GPM-1600L
Distance: 4.839 m
Humidity:
Inspector:

The Average Illuminance Effective Figure



C Plane (°):0.0-180.0: 5.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:2.5
Test Device: GPM-1600L
Distance: 4.839 m
Humidity:
Inspector:

UGR Table

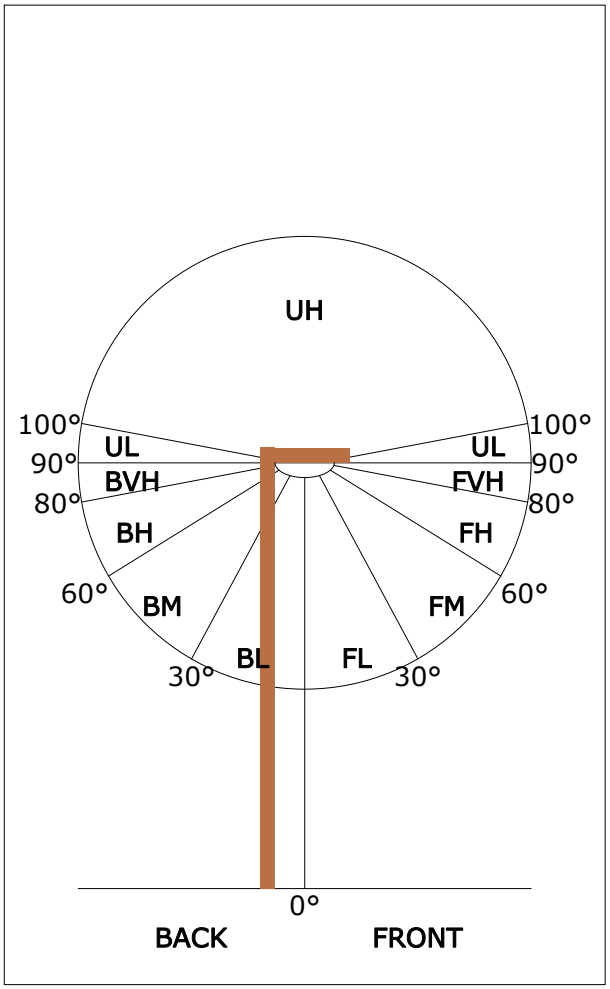
Reflectance: Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
3H	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
4H	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
6H	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
8H	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
12H	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
X=4H Y=2H	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
3H	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
4H	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
6H	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
8H	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
12H	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
X=8H Y=4H	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
6H	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
8H	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
12H	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
X=12H Y=4H	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
6H	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
8H	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
Variations with the observer position at spacings:										
S=1.0H	-1.$/-1.$					-1.$/-1.$				
S=1.5H	-1.$/-1.$					-1.$/-1.$				
S=2.0H	-1.$/-1.$					-1.$/-1.$				

Calculate in accordance with CIE Pub.117. The table is revised with 203lm (8log(F/F0) = -5.5).

C Plane (°):0.0-180.0: 5.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:2.5
Test Device: GPM-1600L
Distance: 4.839 m
Humidity:
Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM



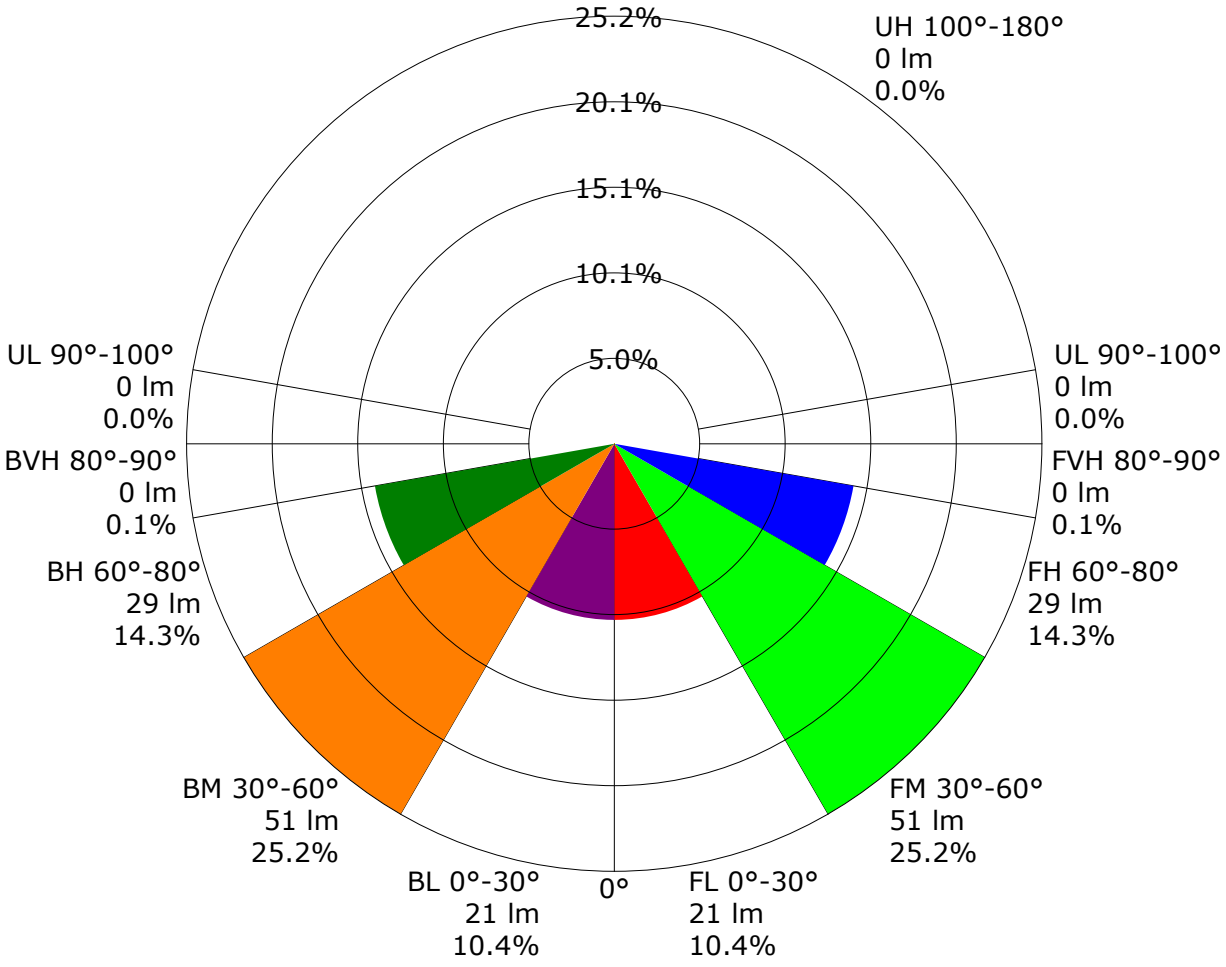
ZONE	LUMENS	% LAMP LUMENS
FORWARD LIGHT	101	50.0
FL (0°-30°)	21	10.4
FM (30°-60°)	51	25.2
FH (60°-80°)	29	14.3
FVH (80°-90°)	0	0.1
BACK LIGHT	101	50.0
BL (0°-30°)	21	10.4
BM (30°-60°)	51	25.2
BH (60°-80°)	29	14.3
BVH (80°-90°)	0	0.1
UP LIGHT	0	0.0
UL (90°-100°)	0	0.0
UH (100°-180°)	0	0.0
TRAPPED LIGHT	NA	NA

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B0 U0 G0
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B0 U0 G0

C Plane (°):0.0-180.0: 5.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:2.5
Test Device: GPM-1600L
Distance: 4.839 m
Humidity:
Inspector:

LCS Graph



Scale= MAX LCS%

Trapped Light:NA,NA

Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)			SHR NOM = 1.50								
Room Reflectance			Room Index(RI)								
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.52	0.61	0.69	0.75	0.83	0.89	0.93	0.98	1.01
	0.30		0.44	0.53	0.62	0.68	0.77	0.83	0.88	0.93	0.97
	0.20		0.38	0.46	0.56	0.62	0.72	0.78	0.83	0.90	0.94
0.50	0.50	0.20	0.51	0.59	0.67	0.73	0.80	0.85	0.89	0.94	0.97
	0.30		0.43	0.51	0.60	0.66	0.75	0.81	0.85	0.90	0.94
	0.20		0.38	0.46	0.55	0.61	0.70	0.76	0.81	0.87	0.91
0.30	0.50	0.20	0.49	0.57	0.65	0.70	0.77	0.82	0.86	0.90	0.93
	0.30		0.43	0.50	0.59	0.65	0.73	0.78	0.82	0.87	0.91
	0.20		0.38	0.45	0.54	0.60	0.69	0.75	0.79	0.85	0.88
0.00	0.00	0.00	0.35	0.43	0.51	0.57	0.65	0.71	0.75	0.80	0.84

Rating:0W 1.50m Mounted:On Ceiling

Multiply UF values by service correction factors

Calculate in accordance with CIBSE Technical Memorandum NO.5 1980

C Plane (°):0.0-180.0: 5.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:2.5
Test Device: GPM-1600L
Distance: 4.839 m
Humidity:
Inspector:

Utilisation Factor Table(Wall)

Utilisation Factors UF(W)							SHR NOM = 1.50				
Room Reflectance			Room Index(RI)								
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	1.03	0.88	0.74	0.64	0.50	0.42	0.35	0.27	0.22
	0.30		0.86	0.75	0.64	0.57	0.46	0.38	0.33	0.25	0.21
	0.20		0.73	0.66	0.57	0.51	0.42	0.35	0.30	0.24	0.20
0.50	0.50	0.20	0.99	0.85	0.71	0.61	0.48	0.43	0.34	0.26	0.21
	0.30		0.84	0.73	0.63	0.55	0.44	0.37	0.32	0.24	0.20
	0.20		0.73	0.65	0.56	0.50	0.41	0.34	0.30	0.23	0.19
0.30	0.50	0.20	0.96	0.82	0.68	0.59	0.46	0.38	0.32	0.25	0.20
	0.30		0.82	0.72	0.61	0.53	0.43	0.36	0.30	0.24	0.19
	0.20		0.72	0.64	0.55	0.49	0.40	0.33	0.29	0.22	0.18
0.00	0.00	0.00	0.63	0.55	0.47	0.41	0.33	0.27	0.23	0.18	0.14

Rating:0W 1.50m Mounted:On Ceiling

Multiply UF values by service correction factors

Calculate in accordance with CIBSE Technical Memorandum NO.5 1980

Utilisation Factor Table(Ceiling cavity)

Utilisation Factors UF(C)			SHR NOM = 1.50								
Room Reflectance			Room Index(RI)								
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.16	0.18	0.19	0.19	0.20	0.20	0.21	0.21	0.21
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.19
	0.20		0.04	0.06	0.07	0.09	0.11	0.12	0.13	0.15	0.16
0.50	0.50	0.20	0.16	0.17	0.18	0.18	0.19	0.19	0.20	0.20	0.20
	0.30		0.09	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18
	0.20		0.04	0.06	0.07	0.08	0.10	0.12	0.13	0.15	0.16
0.30	0.50	0.20	0.15	0.17	0.17	0.18	0.18	0.19	0.19	0.19	0.20
	0.30		0.09	0.10	0.12	0.13	0.14	0.15	0.16	0.17	0.17
	0.20		0.04	0.06	0.07	0.08	0.10	0.12	0.13	0.14	0.15
0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	NA	NA

Rating:0W 1.50m Mounted:On Ceiling

Multiply UF values by service correction factors

Calculate in accordance with CIBSE Technical Memorandum NO.5 1980

C Plane (°):0.0-180.0: 5.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:2.5
Test Device: GPM-1600L
Distance: 4.839 m
Humidity:
Inspector:

Zonal Lumen

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-2.5	52.1	0.3	0.3	0.15	0.15
2.5-5.0	52.0	0.9	1.2	0.46	0.61
5.0-7.5	51.8	1.5	2.8	0.76	1.38
7.5-10.0	51.5	2.1	4.9	1.06	2.43
10.0-12.5	51.2	2.7	7.7	1.35	3.78
12.5-15.0	50.9	3.3	11.0	1.63	5.42
15.0-17.5	50.6	3.9	14.9	1.91	7.33
17.5-20.0	50.2	4.4	19.3	2.18	9.51
20.0-22.5	49.9	5.0	24.2	2.44	11.96
22.5-25.0	49.5	5.5	29.7	2.70	14.65
25.0-27.5	49.2	6.0	35.7	2.94	17.59
27.5-30.0	48.8	6.4	42.1	3.17	20.77
30.0-32.5	48.3	6.9	49.0	3.39	24.15
32.5-35.0	47.8	7.3	56.3	3.59	27.74
35.0-37.5	47.1	7.6	63.9	3.77	31.51
37.5-40.0	46.5	8.0	71.9	3.94	35.44
40.0-42.5	45.9	8.3	80.2	4.09	39.53
42.5-45.0	45.2	8.6	88.8	4.23	43.76
45.0-47.5	44.5	8.8	97.6	4.35	48.10
47.5-50.0	43.8	9.0	106.6	4.45	52.56
50.0-52.5	43.0	9.2	115.8	4.54	57.09
52.5-55.0	42.3	9.3	125.1	4.61	61.70
55.0-57.5	41.5	9.5	134.6	4.66	66.36
57.5-60.0	40.8	9.6	144.2	4.72	71.08
60.0-62.5	40.3	9.7	153.9	4.78	75.86
62.5-65.0	40.1	9.8	163.7	4.86	80.72
65.0-67.5	40.2	10.1	173.8	4.98	85.70
67.5-70.0	40.4	10.3	184.1	5.09	90.78
70.0-72.5	35.4	9.2	193.3	4.53	95.31
72.5-75.0	22.0	5.8	199.1	2.86	98.17
75.0-77.5	8.8	2.3	201.5	1.16	99.32
77.5-80.0	2.9	0.8	202.2	0.38	99.70
80.0-82.5	1.3	0.3	202.6	0.17	99.87
82.5-85.0	0.6	0.2	202.7	0.08	99.95
85.0-87.5	0.3	0.1	202.8	0.03	99.98
87.5-90.0	0.1	0.0	202.8	0.02	100.00

C Plane (°):0.0-180.0: 5.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:2.5
Test Device: GPM-1600L
Distance: 4.839 m
Humidity:
Inspector:

Candlepower Table

Unit: cd

G\C	C0.0	C5.0	C10.0	C15.0	C20.0	C25.0	C30.0	C35.0	C40.0	C45.0
G0.0	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1
G2.5	52.3	52.2	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3
G5.0	52.1	52.1	52.2	52.1	52.2	52.2	52.2	52.2	52.2	52.2
G7.5	52.1	52.1	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
G10.0	52.0	52.0	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9
G12.5	51.8	51.8	51.8	51.8	51.8	51.7	51.7	51.7	51.6	51.7
G15.0	51.8	51.7	51.7	51.7	51.6	51.6	51.5	51.5	51.5	51.4
G17.5	51.6	51.5	51.6	51.5	51.5	51.4	51.4	51.3	51.3	51.2
G20.0	51.4	51.4	51.4	51.3	51.3	51.2	51.1	51.1	51.1	51.0
G22.5	51.2	51.2	51.2	51.1	51.0	50.8	50.7	50.7	50.7	50.6
G25.0	50.8	50.8	50.8	50.7	50.6	50.5	50.4	50.2	50.2	50.2
G27.5	50.3	50.3	50.3	50.2	50.2	50.1	50.0	49.9	49.8	49.8
G30.0	49.8	49.8	49.7	49.7	49.7	49.6	49.6	49.4	49.3	49.3
G32.5	49.3	49.2	49.1	49.1	49.2	49.0	49.0	49.0	48.9	48.9
G35.0	48.5	48.5	48.4	48.3	48.4	48.4	48.4	48.4	48.6	48.5
G37.5	47.9	47.8	47.8	47.7	47.8	47.9	47.9	48.0	48.0	47.9
G40.0	47.1	47.0	47.0	47.0	47.0	47.1	47.3	47.2	47.4	47.2
G42.5	46.5	46.3	46.3	46.3	46.3	46.4	46.4	46.5	46.6	46.6
G45.0	45.5	45.3	45.4	45.5	45.6	45.6	45.7	45.7	45.8	45.8
G47.5	44.3	44.4	44.5	44.6	44.8	44.8	44.9	45.0	45.0	45.0
G50.0	43.3	43.3	43.5	43.8	43.9	44.1	44.2	44.1	44.2	44.2
G52.5	42.4	42.5	42.6	43.0	43.1	43.2	43.3	43.4	43.5	43.4
G55.0	41.7	41.8	41.8	42.0	42.3	42.4	42.5	42.6	42.7	42.5
G57.5	41.0	41.1	41.1	41.1	41.3	41.4	41.6	41.7	41.7	41.7
G60.0	40.6	40.7	40.6	40.5	40.6	40.8	41.0	41.2	41.1	41.0
G62.5	40.6	40.5	40.3	40.0	40.0	40.1	40.4	40.6	40.7	40.6
G65.0	40.5	40.3	39.8	39.6	39.5	39.7	39.8	40.1	40.4	40.4
G67.5	40.7	40.5	39.9	39.5	39.3	39.7	39.9	40.2	40.4	40.6
G70.0	40.5	40.4	40.1	40.1	39.9	39.8	39.6	40.1	40.6	41.1
G72.5	32.4	32.7	33.5	33.8	34.4	34.6	34.9	34.9	35.5	36.1
G75.0	13.0	13.7	15.4	16.2	17.6	17.9	18.4	18.2	18.9	19.2
G77.5	3.1	3.5	4.3	4.7	5.5	5.4	6.0	5.9	6.1	5.9
G80.0	1.7	1.9	2.1	2.1	2.2	2.2	2.3	2.3	2.3	2.3
G82.5	0.9	1.0	1.1	1.2	1.2	1.2	1.3	1.3	1.3	1.3
G85.0	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.7	0.7	0.6
G87.5	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2
G90.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

C Plane (°):0.0-180.0: 5.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:2.5
Test Device: GPM-1600L
Distance: 4.839 m
Humidity:
Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C50.0	C55.0	C60.0	C65.0	C70.0	C75.0	C80.0	C85.0	C90.0	C95.0
G0.0	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1
G2.5	52.3	52.3	52.3	52.3	52.3	52.2	52.2	52.2	52.1	52.1
G5.0	52.2	52.1	52.2	52.2	52.2	52.2	52.1	52.1	52.0	52.0
G7.5	52.0	52.0	52.0	51.9	51.8	51.8	51.8	51.7	51.8	51.7
G10.0	51.8	51.7	51.7	51.6	51.6	51.5	51.5	51.4	51.3	51.3
G12.5	51.7	51.6	51.5	51.4	51.4	51.3	51.1	51.1	51.0	50.9
G15.0	51.4	51.3	51.2	51.2	51.0	50.9	50.7	50.7	50.5	50.4
G17.5	51.1	51.0	51.0	50.9	50.7	50.6	50.4	50.2	50.0	49.9
G20.0	50.9	50.8	50.6	50.4	50.3	50.3	50.1	50.0	49.7	49.7
G22.5	50.5	50.3	50.2	50.1	49.9	49.9	49.8	49.6	49.5	49.5
G25.0	50.1	50.0	49.9	49.7	49.6	49.6	49.5	49.2	49.3	49.4
G27.5	49.8	49.8	49.7	49.4	49.4	49.2	48.9	48.8	49.0	48.9
G30.0	49.4	49.4	49.3	49.1	48.9	48.7	48.5	48.4	48.6	48.6
G32.5	49.0	49.0	49.0	48.7	48.3	48.3	48.0	47.8	48.1	48.0
G35.0	48.4	48.3	48.3	48.1	47.6	47.6	47.4	47.1	47.4	47.4
G37.5	47.8	47.6	47.6	47.4	47.1	46.8	46.7	46.5	46.9	46.9
G40.0	47.2	47.0	46.9	46.8	46.6	46.2	46.1	45.9	46.3	46.1
G42.5	46.4	46.3	46.4	46.2	46.0	45.8	45.4	45.3	45.6	45.4
G45.0	45.8	45.7	45.6	45.3	45.2	45.1	44.9	44.6	45.2	45.0
G47.5	45.0	45.0	44.8	44.6	44.5	44.4	44.2	44.1	44.5	44.3
G50.0	44.3	44.1	44.0	43.7	43.5	43.5	43.4	43.5	43.8	43.8
G52.5	43.3	43.2	42.9	42.8	42.5	42.4	42.1	42.4	43.0	43.0
G55.0	42.6	42.4	42.2	41.8	41.7	41.6	41.5	41.5	42.3	42.2
G57.5	41.6	41.5	41.4	41.1	40.8	40.6	40.6	40.6	41.6	41.6
G60.0	40.9	40.8	40.6	40.4	40.1	40.0	39.9	39.9	41.1	41.1
G62.5	40.4	40.1	39.9	39.7	39.5	39.2	39.1	39.3	41.0	40.9
G65.0	40.1	39.8	39.5	39.3	39.0	38.9	38.8	39.0	40.9	40.8
G67.5	40.4	39.8	39.7	39.5	39.1	38.9	38.9	39.0	41.8	41.9
G70.0	41.2	41.1	40.7	40.2	39.7	39.3	39.2	39.4	39.5	39.7
G72.5	36.9	36.9	37.5	37.1	37.0	36.6	36.8	36.9	24.0	24.0
G75.0	19.8	20.0	20.9	20.8	21.3	21.0	21.4	21.2	6.3	6.3
G77.5	6.2	6.3	6.8	7.0	7.3	7.1	7.1	6.4	1.9	1.9
G80.0	2.3	2.3	2.3	2.2	2.2	2.0	1.9	1.8	0.6	0.6
G82.5	1.3	1.2	1.0	0.7	0.7	0.5	0.4	0.3	0.1	0.1
G85.0	0.4	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
G87.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
G90.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

C Plane (°):0.0-180.0: 5.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:2.5
Test Device: GPM-1600L
Distance: 4.839 m
Humidity:
Inspector:

Candlepower Table (Continue 2)

Unit: cd

G\C	C100.0	C105.0	C110.0	C115.0	C120.0	C125.0	C130.0	C135.0	C140.0	C145.0
G0.0	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1
G2.5	52.1	52.1	52.0	52.1	52.0	52.0	52.0	52.0	52.0	52.0
G5.0	52.0	51.9	51.9	51.8	51.8	51.8	51.8	51.7	51.6	51.6
G7.5	51.6	51.6	51.5	51.5	51.5	51.4	51.4	51.4	51.4	51.3
G10.0	51.2	51.1	51.0	50.9	50.7	50.7	50.6	50.7	50.7	50.7
G12.5	50.8	50.7	50.6	50.5	50.4	50.2	50.2	50.2	50.2	50.3
G15.0	50.3	50.2	50.3	50.3	50.3	50.1	50.0	50.0	50.0	50.0
G17.5	49.8	49.7	49.6	49.6	49.6	49.7	49.6	49.6	49.7	49.6
G20.0	49.6	49.5	49.4	49.3	49.3	49.2	49.2	49.2	49.2	49.2
G22.5	49.3	49.3	49.2	49.1	49.0	49.1	49.0	48.8	48.7	48.7
G25.0	49.2	49.2	49.1	49.0	48.9	48.9	48.8	48.5	48.3	48.3
G27.5	49.0	48.9	48.8	48.8	48.8	48.6	48.4	48.2	48.0	47.9
G30.0	48.5	48.5	48.4	48.3	48.2	48.1	48.0	47.8	47.5	47.4
G32.5	47.9	47.9	47.8	47.8	47.7	47.5	47.3	47.4	47.2	47.1
G35.0	47.3	47.3	47.2	47.2	47.1	46.9	46.8	46.7	46.6	46.5
G37.5	46.8	46.7	46.6	46.6	46.5	46.4	46.3	46.2	46.1	45.9
G40.0	46.0	46.1	46.0	46.0	46.0	45.8	45.7	45.7	45.5	45.3
G42.5	45.4	45.5	45.5	45.6	45.4	45.2	45.1	45.0	44.8	44.7
G45.0	44.9	44.9	44.8	44.9	44.7	44.6	44.5	44.4	44.3	44.0
G47.5	44.2	44.4	44.3	44.2	43.9	43.9	43.9	43.8	43.7	43.5
G50.0	43.7	43.7	43.6	43.4	43.1	43.1	43.2	43.1	43.0	43.0
G52.5	42.9	43.0	43.0	42.6	42.4	42.2	42.3	42.5	42.4	42.4
G55.0	42.2	42.3	42.2	41.8	41.6	41.6	41.7	41.9	41.8	41.7
G57.5	41.6	41.6	41.4	41.2	41.1	41.1	41.2	41.3	41.3	41.2
G60.0	41.0	41.1	40.8	40.6	40.7	40.7	40.8	40.7	40.8	40.9
G62.5	40.8	40.7	40.5	40.4	40.5	40.5	40.7	40.7	40.7	40.6
G65.0	40.7	40.6	40.6	40.5	40.7	40.8	40.9	41.1	41.0	40.9
G67.5	42.2	42.1	41.9	41.7	41.8	41.8	42.0	42.0	42.0	41.6
G70.0	39.3	39.1	38.8	38.9	39.0	39.7	40.0	40.6	41.0	42.0
G72.5	22.9	22.7	22.1	22.6	22.0	22.5	22.7	23.8	24.1	26.0
G75.0	5.9	6.0	6.1	6.4	6.7	7.3	7.7	8.6	8.8	9.7
G77.5	1.9	1.9	1.8	1.9	1.9	1.9	2.0	2.1	2.2	2.3
G80.0	0.7	0.8	0.9	1.0	1.1	1.3	1.3	1.4	1.5	1.6
G82.5	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.8	0.9	1.0
G85.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.5	0.6
G87.5	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.3
G90.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

C Plane (°):0.0-180.0: 5.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:2.5
Test Device: GPM-1600L
Distance: 4.839 m
Humidity:
Inspector:

Candlepower Table (Continue 3)

Unit: cd

G\C	C150.0	C155.0	C160.0	C165.0	C170.0	C175.0	C180.0			
G0.0	52.1	52.1	52.1	52.1	52.1	52.1	52.1			
G2.5	51.9	51.9	51.9	51.9	51.9	51.9	51.9			
G5.0	51.6	51.6	51.6	51.5	51.5	51.5	51.6			
G7.5	51.3	51.3	51.3	51.2	51.2	51.2	51.2			
G10.0	50.8	50.8	50.9	50.9	50.9	50.9	50.9			
G12.5	50.5	50.5	50.5	50.5	50.5	50.4	50.5			
G15.0	50.1	50.1	50.2	50.1	50.1	50.1	50.1			
G17.5	49.6	49.6	49.7	49.6	49.7	49.6	49.7			
G20.0	49.2	49.2	49.1	49.1	49.0	49.0	49.2			
G22.5	48.6	48.7	48.6	48.6	48.6	48.6	48.6			
G25.0	48.3	48.2	48.2	48.2	48.2	48.2	48.3			
G27.5	47.9	47.9	48.0	47.9	47.9	47.8	47.9			
G30.0	47.4	47.4	47.5	47.5	47.4	47.4	47.5			
G32.5	46.9	46.8	46.9	46.8	46.9	47.0	47.0			
G35.0	46.3	46.2	46.2	46.1	46.2	46.4	46.3			
G37.5	45.8	45.6	45.5	45.4	45.6	45.6	45.6			
G40.0	45.1	45.0	44.9	44.8	44.9	44.9	44.9			
G42.5	44.5	44.3	44.3	44.2	44.3	44.2	44.3			
G45.0	43.9	43.7	43.7	43.5	43.6	43.5	43.6			
G47.5	43.4	43.3	43.3	43.0	42.9	42.8	42.9			
G50.0	42.8	42.8	42.7	42.5	42.2	42.1	42.1			
G52.5	42.3	42.3	42.1	41.8	41.6	41.3	41.4			
G55.0	41.6	41.5	41.4	41.2	41.0	40.8	40.9			
G57.5	41.0	40.8	40.6	40.3	40.4	40.1	40.2			
G60.0	40.5	40.1	39.9	39.5	39.6	39.5	39.6			
G62.5	40.3	39.8	39.4	39.0	38.9	39.0	39.1			
G65.0	40.5	40.0	39.6	39.1	38.9	38.7	38.8			
G67.5	41.2	40.6	40.2	39.7	39.4	39.1	39.2			
G70.0	42.3	42.3	41.8	41.5	41.3	41.1	41.2			
G72.5	26.6	28.5	29.1	29.9	30.9	32.1	32.5			
G75.0	9.9	10.5	11.0	12.0	12.7	13.4	13.6			
G77.5	2.4	2.5	2.6	2.7	2.8	2.9	2.9			
G80.0	1.6	1.7	1.7	1.8	1.8	1.8	1.8			
G82.5	1.1	1.1	1.1	1.2	1.2	1.2	1.3			
G85.0	0.6	0.6	0.7	0.7	0.7	0.7	0.8			
G87.5	0.3	0.3	0.3	0.4	0.4	0.4	0.4			
G90.0	0.1	0.1	0.1	0.1	0.2	0.2	0.2			

C Plane (°):0.0-180.0: 5.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:2.5
Test Device: GPM-1600L
Distance: 4.839 m
Humidity:
Inspector: